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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/607,133	06/27/2003	Michael J. Sullivan	20002.0269	5547

23517 7590 03/25/2005

SWIDLER BERLIN LLP  
3000 K STREET, NW  
BOX IP  
WASHINGTON, DC 20007

EXAMINER
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GORDON, RAEANN

ART UNIT	PAPER NUMBER
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3711

DATE MAILED: 03/25/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

**Application No.**

10/607,133

**Applicant(s)**SULLIVAN ET AL. *ed***Examiner**

Raeann Gorden

**Art Unit**

3711

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 03 January 2005.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-7 and 9-21 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-7 and 9-21 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

**DETAILED ACTION**

***Claim Rejections - 35 USC § 112***

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 13-21 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claims 13 and 16, no antecedent basis for "base rubber".

***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-7, 9-13, and 15-21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hiraoka et al (5,574,107) in view of Maruko et al (6,465,573). Regarding claims 1-5, 13, and 15-18, Hiraoka discloses a golf ball comprising one or more layers comprising a base rubber and a precrosslinked butadiene powder. The powder has a particle size from 0.1 to 1000  $\mu\text{m}$  (col. 3, lines 63-65). Once the rubber powder is added to the composition it is crosslinked again. The method of crosslinking

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does not appear to affect the final product. Hiroaka further discloses the golf ball comprises up to 45 parts by weight of the rubber powder based on 100 parts of the base rubber. Applicant claims from 60 to 200 parts for the precrosslinked material. Maruko teaches a golf ball comprising up to 75% of a precrosslinked rubber powder (col. 3). Regarding claims 6, the rubber powder includes a vulcanizing agent. Regarding claim 7, the anti-reversion agent is not definitely claimed as part of the invention, see claim 6. Regarding claims 9-12, 19 and 20, since the material make-up of Hiraoka in view of Maruko is similar to the materials claimed by applicant the properties are considered obvious. Regarding claim 21, does not appear to have a limitation since the property values are not disclosed. One of ordinary skill in the art would have modified Hiraoka with Maruko for enhanced features.

Claims 13, 14, 15-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over in view Ichikawa et al (2001/0011046). Ichikawa discloses a golf ball comprising one or more layers, wherein at least one of the layers is made from a silicone rubber powder. The layer includes up to 50% by weight of the silicone powder. Applicant claims at least 60 parts by weight per 100 parts of the base rubber, which equals approximately 37%. One of ordinary skill in the art would have modified the quantity for the desired properties.

### ***Response to Arguments***

Applicant's arguments filed 1-3-05 have been fully considered but they are not persuasive. Applicant argues one would not be led to increase the amount of powder in

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the layer without improper use of hindsight. While the primary reference, Hiraoka, discloses up to 35% the disclosure only teaches away from larger amounts for manufacturing purposes. Hiroaka is silent to the effects larger amounts of powder will have on the performance of the ball. Furthermore it is quite common to vary quantities to achieve the desired performance features. The secondary reference is cited to teach the range claimed by applicant is not new or innovative.

### ***Conclusion***

**THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Raeann Gorden whose telephone number is 571-272-4409. The examiner can normally be reached on M-F 9-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Greg Vidovich can be reached on 571-272-4415. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Rg  
March 15, 2005



**RAEANN GORDEN**  
**PRIMARY EXAMINER**